

Title (en)
Umbrella hub and umbrella assembly

Title (de)
Schirmspanner und Schirmeinheit

Title (fr)
Mandrin de parapluie et parapluie

Publication
EP 2774503 A1 20140910 (EN)

Application
EP 14157685 A 20140304

Priority
US 201313783958 A 20130304

Abstract (en)
A quick connect system is provided for a shade structure. The system includes a hub and a structural member. The hub has a top surface, a plurality of side walls forming a slot therebetween, and a displaceable retention device having a free end disposed at an elevation below the top surface. The displaceable retention device is moveable laterally away from the slot. The structural member has an end configured to swing in the slot. The end has a laterally extending rotation device. The rotation device extends laterally beyond the free end of the displaceable retention device when the end is disposed in the slot.

IPC 8 full level
A45B 25/06 (2006.01); **A45B 25/00** (2006.01); **A45B 25/10** (2006.01)

CPC (source: EP US)
A45B 25/00 (2013.01 - EP US); **A45B 25/06** (2013.01 - EP US); **A45B 25/10** (2013.01 - EP US); **Y10T 29/40** (2015.01 - EP US)

Citation (applicant)
• US 7703464 B2 20100427 - MA OLIVER JOEN-AN [US]
• US 7891367 B2 20110222 - MA OLIVER JOEN-AN [US]
• US 8356613 B2 20130122 - MA OLIVER JOEN-AN [US]

Citation (search report)
• [I] GB 2113543 A 19830810 - LEISURE IND LIMITED
• [AD] US 7891367 B2 20110222 - MA OLIVER JOEN-AN [US]

Cited by
GB2600946A; US10881176B1; USD899762S; USD899761S; USD899069S; USD899070S; USD909042S; US10959500B1; US11445790B2

Designated contracting state (EPC)
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EP 2774503 A1 20140910; EP 2774503 B1 20170419; US 2014246062 A1 20140904; US 9192215 B2 20151124

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